NOTES:
1. SILT FENCE SHOULD EXTEND TO BOTTOM OF PERIMETER TRENCH.
2. STAKES TO BE DRIVEN INTO GROUND UNTIL FIRM.
3. 1' WIDE TRENCH DUG AROUND INTAKE PERIMETER AT 12" DEPTH BELOW INTAKE TOP OF WALL. PLACE 4" DEPTH GRAVEL IN TRENCH BOTTOM.

* REFER TO SILT FENCE DETAIL.
NOTE:
POINT "B" MUST BE HIGHER THAN POINT "A".
STAKE CHECK DAM ON DOWNHILL SIDE AS NECESSARY.
"A" IS THE TOP OF THE BERM AT ITS LOWEST POINT.
"B" IS THE MATCH POINT OF EXISTING GRADE WITH THE BOTTOM OF THE BERM.

SECTION VIEW

SECTION VIEW

PLAN VIEW

ISU NPDES DETAILS
ORGANIC CHECK DAMS FOR SWALES, DITCHES, CHANNELS
Snyder & Associates
Engineers
501 S.W. ORALAGOR ROAD
ANKENY, IA 50021 (515) 964-2020

DATE: 02/06/04
TECH: DSS
NOTE:
1. INSTALL INTERSTATE PRODUCTS, INC.
   ULTRA DRAIN GUARD, SEDIMENT MODEL
   PART #9226. INSTALL AND MAINTAIN
   PER MANUFACTURER'S INSTRUCTIONS.

2. THE TRAP MAY BE USED IN COMBINATION
   WITH A PERIMETER FILTER SOCK. SEE
   DETAIL XX.

CURB AND GUTTER
STYLE INTAKE

WEIGHT DOWN WITH A 10" DIA. FILTER
SOCK AND BLOCK CURB OPENING

WRAP INTAKE RIM WITH
SILT FENCE MATERIAL

WOOD BLOCKING SUPPORT
10" DIA. FILTER SOCK

FLOW

AREA
DROP
INLET

5% MAXIMUM SLOPE

FLOW
NOTES

1. UNDER NO CIRCUMSTANCES WILL SILT-LADEN WATER BE PUMPED FROM AN EXCAVATION DIRECTLY INTO A STORM SEWER SYSTEM OR STREAM.

2. AN ADEQUATE SILT REMOVAL SYSTEM WILL BE INSTALLED BY THE CONTRACTOR PRIOR TO DISCHARGING.

3. IF A TEMPORARY BASIN IS NOT PRACTICAL, PROTECT THE RECEIVING STORM SEWER SYSTEM OR STREAM BY USING SEDIMENT TRAPS OR OTHER INLET PROTECTION MEASURES.

4. SEE DETAIL XX FOR SEDIMENT TRAPS. SEE DETAIL XX FOR INLET PROTECTION.
OUTLET FLOWLINE TO DRAIN OR AS DETERMINED BY ENGINEER.

FLOW

SEDIMENT BASIN

FLOW

BERM HEIGHT AS DETERMINED BY ENGINEER (2' MIN., 5' MAX.)

BERM

FLOW

NOTE:
1. INDUSTRY STANDARD SUGGEST 3600 CUBIC FEET OF STORAGE AREA PER ACRE OF GROUND IN THE DRAINAGE WAY ABOVE THE BASIN.
2. INLET FLOWLINE ELEVATION AS DETERMINED BY ENGINEER FOR USABLE SETTLING VOLUME OR AT EXISTING LOW POINT.
3. OUTLET FLOWLINE TO DRAIN OR AS DETERMINED BY ENGINEER.
4. CONSTRUCT BERM IN 6" LIFTS AND COMPACT. BERM SHALL BE FREE OF ROOTS, VEGETATION AND LARGE STONES.
5. SEED OR MULCH BERM TO CONTROL EROSION.
6. CLEAN SEDIMENT BASIN WHEN IT HAS REACHED 50% CAPACITY.
1. AREA TO APPLY FILTER FABRIC (SILT FENCE MATERIAL) AND RIP-RAP. USE CLASS "E" RIP-RAP OR SIMILAR LARGE 12" MATERIAL.

NOTE:
ADDITIONAL SILT FENCE DITCH CHECKS AS REQUIRED
SPACING AS REQUIRED
5' MAX. SPACING
STAKES ON DOWNSTREAM SIDE OF FABRIC AT ALL TIMES
NOTE:
1. DRAIN TILE IS SLOTTED OR PERFORATED POLYETHYLENE 4" DIAMETER MINIMUM. LOCATE AS REQUIRED BY ENGINEER.

2. THE DAYLIGHT LOCATION OF THE TILE OR THE CONNECTION OF THE TILE TO AN EXISTING STORM SEWER SYSTEM SHALL BE APPROVED BY ENGINEER.

3. WRAP PEA GRAVEL IN FILTER FABRIC ONLY IF REQUIRED BY ENGINEER.
NOTE:
1. SECURE TOP OF ENGINEERING FABRIC TO TOP OF STEEL POST; SEE DETAIL OF ATTACHMENT TO POST.
2. ENGINEERING FABRIC TO BE PLACED TO BOTTOM OF TRENCH.
3. MAKE VERTICAL CUT IN TOP OF FABRIC, PULL OUT AND TWIST CORD.
4. LOOP CORD AROUND POST FORMING A LOOP, PULL WIRE THROUGH FOLD AREA OF FABRIC AND SECURE AROUND POST.
GENERAL NOTES

1. UNDER NO CIRCUMSTANCES WILL SILT - LADEN WATER BE PUMPED FROM AN EXCAVATION DIRECTLY INTO A STORM SEWER SYSTEM OR STREAM.

2. AN ADEQUATE SILT REMOVAL SYSTEM WILL BE INSTALLED BY THE CONTRACTOR PRIOR TO DISCHARGING.

3. IF A FILTER BAG IS NOT PRACTICAL, PROTECT THE RECEIVING STORM SEWER SYSTEM BY USING SEDIMENT TRAPS OR OTHER INLET PROTECTION MEASURES.

4. SEE DETAIL XX FOR SEDIMENT TRAPS.

5. SEE DETAIL XX FOR INLET PROTECTION.

FILTER BAG NOTES

1. FILTER BAG IS NON-WOVEN MATERIAL, MINIMUM 10' x 15' SIZE OR AS SPECIFIED BY ENGINEER.

2. DO NOT OVER PRESSURIZE FILTER BAG OR USE BEYOND CAPACITY.

3. LOCATE DISCHARGE SITE 25' MINIMUM FROM STREAMS, WETLANDS, OR OTHER CONCENTRATED FLOW AREAS.

4. DOWN GRADIENT RECEIVING AREA FROM THE FILTER BAG MUST BE VEGETATED OR MULCHED, OR OTHERWISE MADE STABLE FROM EROSION.

5. STRAW MATTING IS AN ACCEPTABLE SUBSTITUTE FOR THE STONE BLANKET.

6. USE "DIRTBAG" PRODUCT AVAILABLE FROM ACF ENVIRONMENTAL OR EQUAL.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY DISPOSE OF THE CONTENTS OF THE FILTER BAG AND THE FILTER BAG ITSELF AFTER USE.